

**AMENDMENTS TO THE CLAIMS**

Please cancel claims 11, 22, 32 and 42, resulting in the following listing of the claims. This claim listing replaces and supersedes all prior claim listings.

1. (Original) A radio transmission device for transmitting data through a radio line, comprising:

data inputting means for inputting transmission data;

input data storing means for storing the inputted transmission data temporarily;

data compression means for reading data from the data storing means to compress the data; and

data transmitting means for transmitting the compressed data through the radio line.

2. (Original) A radio transmission device according to Claim 1, additionally comprising:

throughput judging means for judging throughput in the radio line.

3. (Original) A radio transmission device according to Claim 2, wherein:

said input data storing means is comprised of a memory that operates using a first-in first-out method; and

said throughput judging means judges throughput according to a difference between a data writing location and a data reading location of the input data storing means.

4. (Original) A radio transmission device according to Claim 1, additionally comprising:

compression rate control means for controlling a data compression rate in the data compression means.

5. (Original) A radio transmission device according to Claim 1, additionally comprising:

throughput judging means for judging throughput in the radio line; and

compression rate control means for controlling a data compression rate in the data compression means according to the judged throughput.

6. (Original) A radio transmission device according to Claim 5, wherein:

said compression rate control means increases a data compression rate with a decrease in throughput, and decreases the data compression rate with recovery of the throughput.

7. (Original) A radio transmission device according to Claim 1, additionally comprising:

input speed control means for controlling data input speed in the data inputting means.

8. (Original) A radio transmission device according to Claim 1, additionally comprising:

throughput judging means for judging throughput in the radio line; and

input speed control means for controlling data input speed in the data inputting means according to the judged throughput.

9. (Original) A radio transmission device according to Claim 8, wherein:

said input speed control means decreases data input speed with a decrease in throughput, and increases the data input speed with recovery of the throughput.

10. (Original) A radio transmission device according to Claim 1, wherein:

said data transmitting means performs best-effort-type packet transmission, which responds to a retransmission request.

11. (Cancel).

12. (Original) A radio transmission method for transmitting data through a radio line, comprising the steps of:

a data inputting step for inputting transmission data;

an input data storing step for storing the inputted transmission data temporarily;

a data compression step for reading data from the data storing means to compress the data; and

a data transmitting step for transmitting the compressed data through the radio line.

13. (Original) A radio transmission method according to Claim 12, additionally comprising the step of:

a throughput judging step for judging throughput in the radio line.

14. (Original) A radio transmission method according to Claim 13, wherein:

in the input data storing step, data is written and read by means of a first-in first-out method; and

in the throughput judging step, throughput is judged according to a difference between a data writing location and a data reading location of the input data storing step.

15. (Original) A radio transmission method according to Claim 12, additionally comprising the step of:

a compression rate control step for controlling a data compression rate in the data compression step.

16. (Original) A radio transmission method according to Claim 12, additionally comprising the steps of:

a throughput judging step for judging throughput in the radio line; and

a compression rate control step for controlling a data compression rate in the data compression step according to the judged throughput.

17. (Original) A radio transmission method according to Claim 16, wherein:

in the compression rate control step, a data compression rate is increased with a

decrease in throughput, and the data compression rate is decreased with recovery of the throughput.

18. (Original) A radio transmission method according to Claim 12, additionally comprising the step of:

an input speed control step for controlling data input speed in the data inputting step.

19. (Original) A radio transmission method according to Claim 12, additionally comprising the steps of:

a throughput judging step for judging throughput in the radio line; and

an input speed control step for controlling data input speed in the data inputting step according to the judged throughput.

20. (Original) A radio transmission method according to Claim 19, wherein:

in the input speed control step, data input speed is decreased with a decrease in throughput, and the data input speed is increased with recovery of the throughput.

21. (Original) A radio transmission method according to Claim 12, wherein:

in the data transmitting step, best-effort-type packet transmission, which responds to a retransmission request, is performed.

22. (Cancel).

23. (Original) A radio receiving device for receiving data through a radio line, comprising:

data receiving means for receiving compressed data through the radio line;

data decompressing means for decompressing the received data;

output data storing means for storing the decompressed data temporarily; and

data outputting means for reading data from the output data storing means to output the data.

24. (Original) A radio receiving device according to Claim 23, additionally comprising:

throughput judging means for judging throughput in the radio line.

25. (Original) A radio receiving device according to Claim 24, wherein:

said output data storing means is comprised of a memory that operates using a first-in first-out method; and

said throughput judging means judges throughput according to a difference between a data writing location and a data reading location of the output data storing means.

26. (Original) A radio receiving device according to Claim 23, wherein:

said data receiving means receives a compression rate parameter applied to transmission data; and

said data decompressing means performs data decompression processing

according to the compression rate parameter.

27. (Original) A radio receiving device according to Claim 23, additionally comprising:

output speed control means for controlling data output speed in the data outputting means.

28. (Original) A radio receiving device according to Claim 27, wherein:

said data outputting means records data, which has been read from the output data storing means, on a given storage medium; and

said output speed control means controls data recording speed for recording on the storage medium.

29. (Original) A radio receiving device according to Claim 23, additionally comprising:

throughput judging means for judging throughput in the radio line; and

output speed control means for controlling data output speed in the data outputting means according to the judged throughput.

30. (Original) A radio receiving device according to Claim 29, wherein:

said output speed control means decreases data output speed with a decrease in throughput, and increases the data output speed with recovery of the throughput.

31. (Original) A radio receiving device according to Claim 23, wherein:

said data receiving means performs best-effort-type packet transmission that issues a retransmission request in response to occurrence of a packet receiving error.

32. (Cancel).

33. (Original) A radio receiving method for receiving data through a radio line, comprising the steps of:

a data receiving step for receiving compressed data through the radio line;

a data decompressing step for decompressing the received data;

an output data storing step for storing the decompressed data temporarily; and

a data outputting step for reading data, which has been stored temporarily, to output the data.

34. (Original) A radio receiving method according to Claim 33, additionally comprising the step of:

a throughput judging step for judging throughput in the radio line.

35. (Original) A radio receiving method according to Claim 34, wherein:

in the output data storing step, data is stored by means of a first-in first-out method; and

in the throughput judging step, throughput is judged according to a difference between a data writing location and a data reading location of the output data storing step.

36. (Original) A radio receiving method according to Claim 33, wherein:

in the data receiving step, a compression rate parameter applied to transmission data is received; and

in the data decompressing step, data decompression processing is performed according to the compression rate parameter.

37. (Original) A radio receiving method according to Claim 33, additionally comprising the step of:

an output speed control step for controlling data output speed in the data outputting step.

38. (Original) A radio receiving method according to Claim 37, wherein:

in the data outputting step, data, which has been read in the output data storing step, is recorded on a given storage medium; and

in the output speed control step, data recording speed for recording on the storage medium is controlled.

39. (Original) A radio receiving method according to Claim 33, additionally comprising the steps of:

a throughput judging step for judging throughput in the radio line; and

an output speed control step for controlling data output speed in the data outputting step according to the judged throughput.

40. (Original) A radio receiving method according to Claim 39, wherein:

in the output speed control step, data output speed is decreased with a decrease in throughput, and the data output speed is increased with recovery of the throughput.

41. (Original) A radio receiving method according to Claim 33, wherein:

in the data receiving step, best-effort-type packet transmission, which issues a retransmission request in response to occurrence of a packet receiving error, is performed.

42. (Cancel).

43. (Original) A radio transmitting/receiving system for transmitting data through a radio line, comprising:

a radio transmission unit comprising:

data inputting means for inputting transmission data;

input data storing means for storing the inputted transmission data temporarily by means of a first-in first-out method;

data compression means for reading data from the data storing means to compress the data; and

data transmitting means for transmitting the compressed data through the radio line;

a radio receiving unit comprising:

data receiving means for receiving transmission data through the radio line;

data decompressing means for decompressing the received data;

output data storing means for storing the decompressed data temporarily by means of a first-in first-out method; and

data outputting means for reading data from the output data storing means to output the data.

44. (Original) A radio transmitting/receiving system according to Claim 43, additionally comprising:

throughput judging means for judging throughput in the radio line according to a difference between a data writing location and a data reading location of the input data storing means and/or the output data storing means.

45. (Original) A radio transmitting/receiving system according to Claim 43, additionally comprising:

throughput judging means for judging throughput in the radio line;

compression rate control means for controlling a data compression rate in the data compression means according to throughput in the radio line; and

compression rate notifying means for notifying the radio receiving unit of a compression rate parameter that has been used in the data compression means;

wherein:

said data decompressing means performs data decompression processing according to the notified compression rate parameter.

46. (Original) A radio transmitting/receiving system according to Claim 43, wherein:

said compression rate control means increases a data compression rate with a decrease in throughput, and decreases the data compression rate with recovery of the throughput.

47. (Original) A radio transmitting/receiving system according to Claim 43, additionally comprising:

throughput judging means for judging throughput in the radio line; and

input speed control means for controlling data input speed in the data inputting means according to throughput in the radio line.

48. (Original) A radio transmitting/receiving system according to Claim 47, wherein:

said input speed control means decreases data input speed with a decrease in throughput, and increases the data input speed with recovery of the throughput.

49. (Original) A radio transmitting/receiving system according to Claim 43, additionally comprising:

throughput judging means for judging throughput in the radio line; and

output speed control means for controlling data output speed in the data outputting means according to the judged throughput.

50. (Original) A radio transmitting/receiving system according to Claim 49, wherein:

said output speed control means decreases data output speed with a decrease in throughput, and increases the data output speed with recovery of the throughput.

51. (Original) A radio transmitting/receiving system according to Claim 43, wherein:

said data transmitting means and said data receiving means perform best-effort-type packet transmission, by which retransmission is controlled in response to occurrence of a transmission data error.

52. (Original) A storage medium for storing computer software, by which processing of data transmission through a radio line is performed on a computer system, physically in a computer readable form, wherein:

said computer software comprises:

a data inputting step for inputting transmission data;

an input data storing step for storing the inputted transmission data temporarily;

a data compression step for reading data from the data storing means to compress the data; and

a data transmitting step for transmitting the compressed data through the radio line.